2020-2021

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Agency: Sri.Byate Gowda S N, Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

PROJECT MANAGEMENT CONSULTANTS

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QC ABSTRACT

Nameof Work: Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	286.70 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	70.17 Cum	5	5	Concrete Cube Compressive Strength	-
3	M30	256.10 Cum	8	8	Concrete Cube Compressive Strength	-
4	M15	22.44 Cum	3	3	Concrete Cube Compressive Strength	-
5	Steel	4.21 Tonne	1	1	Concrete Blocks Compressive Strength	-
6	Slab (100mm)	267.30 Sqm	1	1	Concrete Core Compressive Strength	-
7	Slab (230mm)	27.00 Sqm	1	1	Concrete Core Compressive Strength	-

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

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Proprietor
BANGALORE

CIVIL AIM CONSULTANTS & ENGINEERS

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 03.12.2020

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		November - 2020
DATE OF TESTING		01.12.2020 to 03.12.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 03.12.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 03.12.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	79	7.90	7.90	92.1	90-100
2.36	156	15.60	23.50	76.5	75-100
1.18	182	18.20	41.70	58.3	55-90
600 Micron	155	15.50	57.20	42.8	35-59
300 Micron	265	26.50	83.70	16.3	8-30
150 Micron	115	11.50	95.20	4.8	0-10

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BBMP, Bangalore

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Prajwal

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 03.12.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 03.12.2020

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	35	3.50	4.90	95.1	70-100
600 Micron	89	8.90	13.80	86.2	40-100
300 Micron	256	25.60	39.40	60.6	5-70
150 Micron	488	48.80	88.20	11.8	0-15

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TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 03.12.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	196	3.9	3.9	96.1	95-100
10	2635	52.7	56.6	43.4	25-55
4.75	1898	38.0	94.6	5.4	0-10

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 03.12.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8256	55.04	56.27	43.73	30-70
10	3265	21.77	78.03	21.97	10-35
4.75	2850	19.00	97.03	2.97	0-5

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 07.12.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 07.12.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	538	626	1.16	14
2	TMT	10	0.618	549	642	1.17	16
3	TMT	12	0.889	556	659	1.19	15.5

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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REQUIREMENTS AS PER IS: 1786 - 2008 Table 1, Cl 6.2

NOMINAL MASS AND TOLERANCES OF BARS

S.No	Nominal size (dia) (mm)	Mass per metre (kg/metre)	Tolerance on the nominal mass	
			Batch	Individual sample
1	4	0.099	± 7%	- 8%
2	5	0.154	± 7%	- 8%
3	6	0.222	± 7%	- 8%
4	8	0.395	± 7%	- 8%
5	10	0.617	± 7%	- 8%
6	12	0.888	± 5%	- 6%
7	16	1.58	± 5%	- 6%
8	20	2.47	± 3%	- 4%
9	25	3.85	± 3%	- 4%
10	32	6.31	± 3%	- 4%
11	36	7.99	± 3%	- 4%
12	40	9.86	± 3%	- 4%
13	45	12.49	± 3%	- 4%
14	50	15.42	± 3%	- 4%

Assistant Executive Engineer
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BBMP, Bangalore

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REQUIREMENTS AS PER IS: 1786 - 2008 Table 3, Cl 8.1

MECHANICAL PROPERTIES OF HIGH STRENGTH DEFORMED BARS AND WIRES

High strength deformed bars -	0.20 % proof stress/ yield stress, Minimum (N/mm2)		TS/YS ratio, N/mm^2 TS:Tensile Strength YS:0.20 % proof stress/ yield stress	Elongation percent , Minimum, on gauge length
	Min	Max		
Fe 415	415		≥1.10, but TS not less than 485.0 N/mm^2	14.5
Fe 415D	415		≥1.12, but TS not less than 500.0 N/mm^2	18
Fe 415S	415	540	1.25	20
Fe 500	500		≥1.08, but TS not less than 545.0 N/mm^2	12
Fe 500D	500		≥1.10, but TS not less than 565.0 N/mm^2	16
Fe 500S	500	625	1.25	18
Fe 550	550		≥1.06, but TS not less than 585.0 N/mm^2	10
Fe 550 D	550		≥1.08, but TS not less than 600.0 N/mm^2	14.5
Fe 600	600		≥1.06, but TS not less than 660.0 N/mm^2	10

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 10.12.2020

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the Work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 10.12.2020

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.5	315.2	5.25	2041.67	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	26.2	336.3	5.61	2183.33	
3	Block 3	23.8	328.5	5.48	1983.33	
4	Block 4	24.9	334.8	5.58	2075.00	

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BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 18.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	18.12.2020	8.152	356.3	15.84
2	11.12.2020	18.12.2020	8.136	332.3	14.77
3	11.12.2020	18.12.2020	8.114	349.6	15.54

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 08.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	08.01.2021	8.184	500.6	22.25
2	11.12.2020	08.01.2021	8.169	516.2	22.94
3	11.12.2020	08.01.2021	8.155	488.9	21.73

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	18.12.2020	8.136	336.3	14.95
2	11.12.2020	18.12.2020	8.154	365.2	16.23
3	11.12.2020	18.12.2020	8.168	346.8	15.41

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 08.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	08.01.2021	8.148	500.2	22.23
2	11.12.2020	08.01.2021	8.152	511.5	22.73
3	11.12.2020	08.01.2021	8.169	482.6	21.45

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 22.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2020	22.12.2020	8.165	356.3	15.84
2	15.12.2020	22.12.2020	8.158	336.3	14.95
3	15.12.2020	22.12.2020	8.146	362.5	16.11

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 12.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2020	12.01.2021	8.148	515.2	22.90
2	15.12.2020	12.01.2021	8.158	526.3	23.39
3	15.12.2020	12.01.2021	8.169	520.8	23.15

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 22.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2020	22.12.2020	8.174	356.3	15.84
2	15.12.2020	22.12.2020	8.169	339.6	15.09
3	15.12.2020	22.12.2020	8.144	326.2	14.50

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Assistant Executive Engineer
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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 12.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2020	12.01.2021	8.154	509.6	22.65
2	15.12.2020	12.01.2021	8.182	485.9	21.60
3	15.12.2020	12.01.2021	8.146	519.2	23.08

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2020	22.12.2020	8.174	346.5	15.40
2	15.12.2020	22.12.2020	8.156	358.2	15.92
3	15.12.2020	22.12.2020	8.193	334.9	14.88

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

Authorised Signatory

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Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2020	12.01.2021	8.198	500.2	22.23
2	15.12.2020	12.01.2021	8.188	516.5	22.96
3	15.12.2020	12.01.2021	8.165	509.6	22.65

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Assistant Executive Engineer
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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 23.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.12.2020	23.12.2020	8.136	268.2	11.92
2	16.12.2020	23.12.2020	8.144	275.3	12.24
3	16.12.2020	23.12.2020	8.159	286.3	12.72

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 13.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.12.2020	13.01.2021	8.168	389.6	17.32
2	16.12.2020	13.01.2021	8.152	394.5	17.53
3	16.12.2020	13.01.2021	8.146	405.2	18.01

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 31.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2020	31.12.2020	8.136	248.5	11.04
2	24.12.2020	31.12.2020	8.125	269.3	11.97
3	24.12.2020	31.12.2020	8.118	258.6	11.49

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Prajwal

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 21.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2020	21.01.2021	8.148	394.5	17.53
2	24.12.2020	21.01.2021	8.184	406.2	18.05
3	24.12.2020	21.01.2021	8.165	386.9	17.20

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2020	31.12.2020	8.135	288.9	12.84
2	24.12.2020	31.12.2020	8.122	268.2	11.92
3	24.12.2020	31.12.2020	8.146	276.5	12.29

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2020	21.01.2021	8.145	398.6	17.72
2	24.12.2020	21.01.2021	8.136	406.3	18.06
3	24.12.2020	21.01.2021	8.165	384.6	17.09

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 04.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2020	04.01.2021	8.165	508.2	22.59
2	28.12.2020	04.01.2021	8.158	516.3	22.95
3	28.12.2020	04.01.2021	8.145	488.9	21.73

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 25.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2020	25.01.2021	8.168	715.2	31.79
2	28.12.2020	25.01.2021	8.208	726.3	32.28
3	28.12.2020	25.01.2021	8.184	708.6	31.49

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Assistant Executive Engineer
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BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 04.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2020	04.01.2021	8.148	508.2	22.59
2	28.12.2020	04.01.2021	8.189	516.3	22.95
3	28.12.2020	04.01.2021	8.165	488.9	21.73

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 25.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2020	25.01.2021	8.165	705.2	31.34
2	28.12.2020	25.01.2021	8.152	716.3	31.84
3	28.12.2020	25.01.2021	8.148	728.6	32.38

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Kodigehalli Sub Division
BBMP, Bangalore

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Authorised Signatory

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Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2020	04.01.2021	8.148	505.2	22.45
2	28.12.2020	04.01.2021	8.165	516.3	22.95
3	28.12.2020	04.01.2021	8.155	485.6	21.58

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

Authorised Signatory

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Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2020	25.01.2021	8.168	705.2	31.34
2	28.12.2020	25.01.2021	8.184	716.6	31.85
3	28.12.2020	25.01.2021	8.156	728.9	32.40

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Rajwal

Authorised Signatory

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Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2020	04.01.2021	8.188	505.2	22.45
2	28.12.2020	04.01.2021	8.169	516.3	22.95
3	28.12.2020	04.01.2021	8.140	524.8	23.32

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BBMP, Bangalore

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Authorised Signatory

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Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2020	25.01.2021	8.136	705.2	31.34
2	28.12.2020	25.01.2021	8.165	719.3	31.97
3	28.12.2020	25.01.2021	8.158	725.8	32.26

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

Authorised Signatory

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Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.12.2020	05.01.2021	8.168	500.9	22.26
2	29.12.2020	05.01.2021	8.154	486.3	21.61
3	29.12.2020	05.01.2021	8.152	479.6	21.32

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Kodigehalli Sub Division
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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 26.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.12.2020	26.01.2021	8.168	705.2	31.34
2	29.12.2020	26.01.2021	8.184	719.6	31.98
3	29.12.2020	26.01.2021	8.156	738.5	32.82

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.12.2020	05.01.2021	8.148	505.2	22.45
2	29.12.2020	05.01.2021	8.184	519.3	23.08
3	29.12.2020	05.01.2021	8.169	526.3	23.39

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

Authorised Signatory

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.12.2020	26.01.2021	8.198	708.2	31.48
2	29.12.2020	26.01.2021	8.166	716.5	31.84
3	29.12.2020	26.01.2021	8.154	728.9	32.40

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.12.2020	05.01.2021	8.169	505.2	22.45
2	29.12.2020	05.01.2021	8.154	516.3	22.95
3	29.12.2020	05.01.2021	8.149	524.8	23.32

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.12.2020	26.01.2021	8.168	705.2	31.34
2	29.12.2020	26.01.2021	8.154	719.2	31.96
3	29.12.2020	26.01.2021	8.149	724.8	32.21

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 06.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.12.2020	06.01.2021	8.166	508.2	22.59
2	30.12.2020	06.01.2021	8.154	519.3	23.08
3	30.12.2020	06.01.2021	8.135	524.2	23.30

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 27.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.12.2020	27.01.2021	8.168	725.2	32.23
2	30.12.2020	27.01.2021	8.146	719.6	31.98
3	30.12.2020	27.01.2021	8.158	735.6	32.69

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 06.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.12.2020	06.01.2021	8.136	505.2	22.45
2	30.12.2020	06.01.2021	8.165	519.3	23.08
3	30.12.2020	06.01.2021	8.144	508.2	22.59

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 27.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.12.2020	27.01.2021	8.198	708.2	31.48
2	30.12.2020	27.01.2021	8.166	715.3	31.79
3	30.12.2020	27.01.2021	8.158	708.9	31.51

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21

Date: 22.12.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	22.12.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	84.00	0.385	2334.27	1.68	0.965	32.50	16.55	17.88	17.26	21.57
2	50.00	86.00	0.399	2362.90	1.72	0.970	33.60	17.11	18.48	17.92	22.40
3	50.00	88.00	0.412	2384.43	1.76	0.974	34.80	17.72	19.14	18.65	23.31

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 22.12.2020

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and Main and Cross Roads of Bhadrappa layout Lottegollhalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	22.12.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	124.00	1.828	2317.29	1.38	0.933	115.90	18.22	19.68	18.35	22.94
2	90.00	126.00	1.896	2365.34	1.40	0.935	116.20	18.27	19.73	18.45	23.06
3	90.00	128.00	1.965	2413.11	1.42	0.938	117.20	18.42	19.90	18.65	23.32

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Kodigehalli Sub Division
BBMP, Bangalore

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